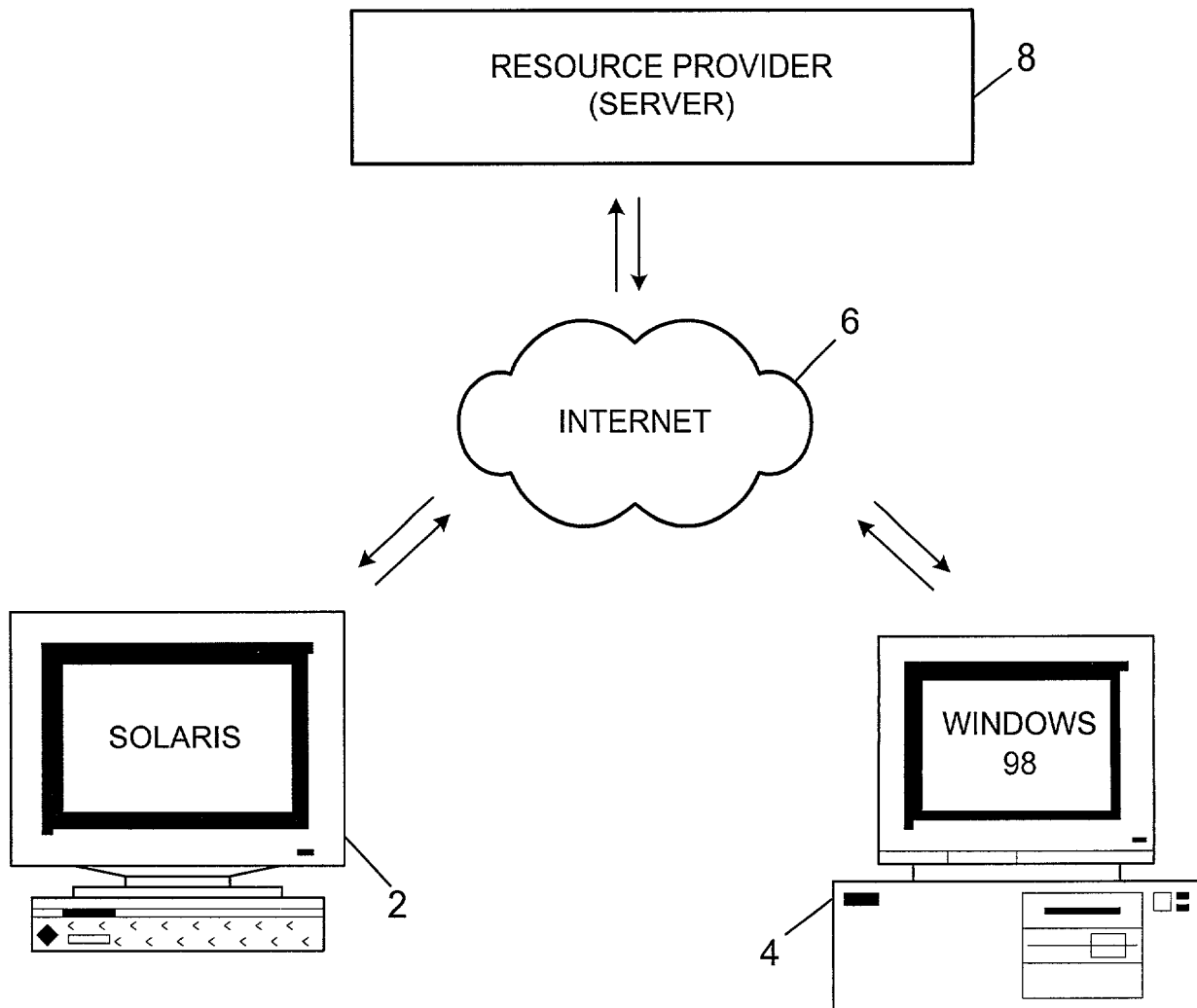
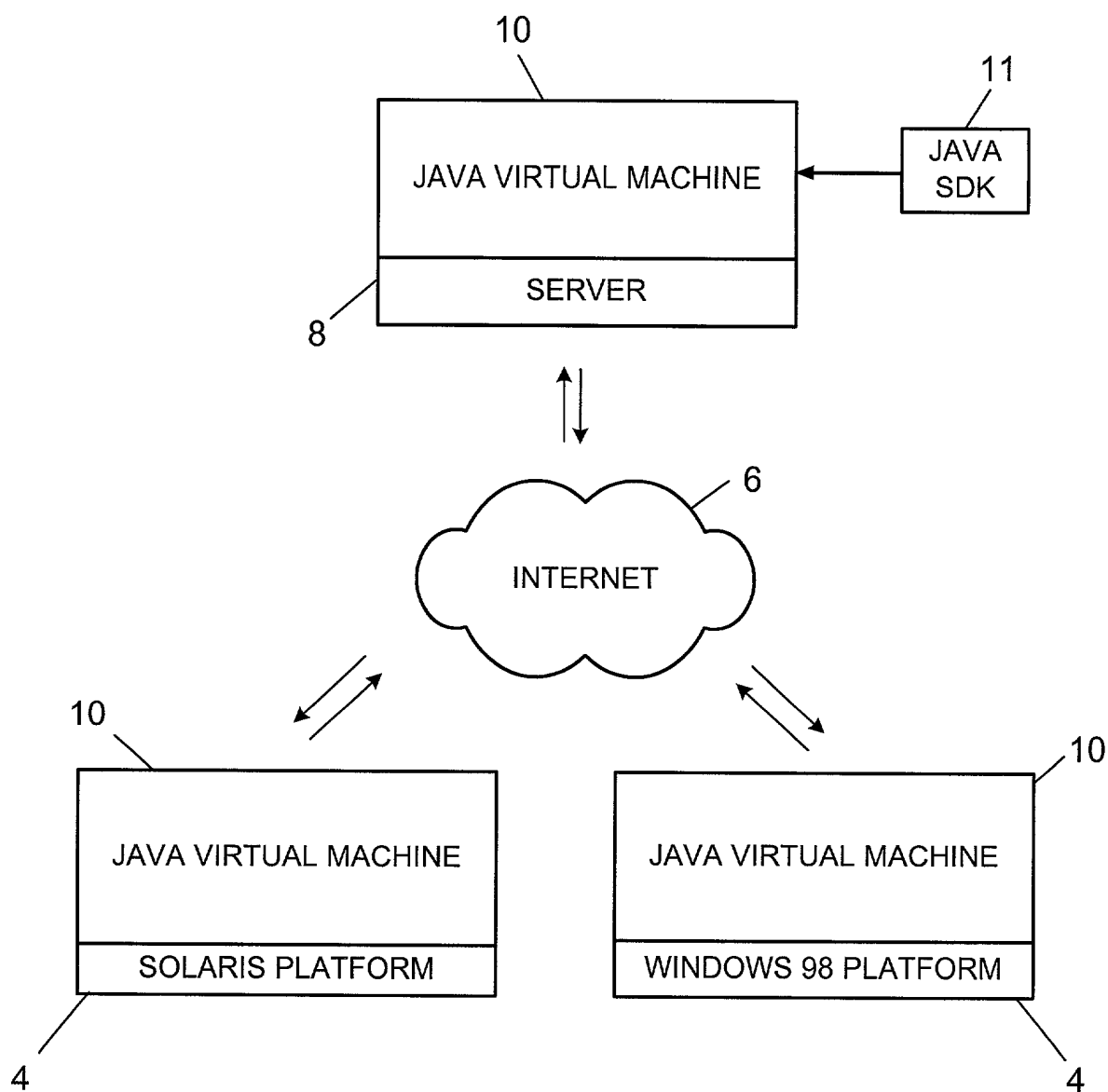


FIG. 1 is a block diagram of a network system. The system includes a Resource Provider (Server) 8, an Internet 6, a Solaris computer 2, and a Windows 98 computer 4. The Resource Provider (Server) 8 is connected to the Internet 6 via a bidirectional arrow. The Internet 6 is connected to both the Solaris computer 2 and the Windows 98 computer 4 via bidirectional arrows.



(PRIOR ART)  
FIGURE 1



(PRIOR ART)  
FIGURE 2

FIG. 3 is a block diagram of a system architecture. The architecture is organized into layers. At the top is a layer for Open Digital Marketplaces/Applications (40). Below this is a large block representing the Internet Service Deployment Platform, which contains three main service layers: Portal Services (42), Communication Services (44), and Web, Application, and Integration Services (46). Portal Services (42) includes Knowledge Management (50), Security (52), Personalization (54), Aggregation (56), and Presentation (58). Communication Services (44) includes Web Mail (60), Calendar (62), Wireless (64), Instant Messaging (66), and Unified Messaging (68). Web, Application, and Integration Services (46) includes Web Server (70), Application Server (72), B2B Integration (74), EAI Integration (76), and Business Process Automation (78). Below the Internet Service Deployment Platform is a layer for Unified User Management Services (48), which includes Directory Server (80), Meta Directory (82), Delegated Administration (84), PKI (86), and Policy (88). At the bottom are two layers: Operating System (30) and Network & Systems Infrastructure (32).

Open Digital Marketplaces/Applications 40

|                                |                    |                           |                       |                        |
|--------------------------------|--------------------|---------------------------|-----------------------|------------------------|
| Portal Services <u>42</u>      |                    |                           |                       |                        |
| Knowledge Management <u>50</u> | Security <u>52</u> | Personalization <u>54</u> | Aggregation <u>56</u> | Presentation <u>58</u> |

|                                  |                    |                    |                             |                             |
|----------------------------------|--------------------|--------------------|-----------------------------|-----------------------------|
| Communication Services <u>44</u> |                    |                    |                             |                             |
| Web Mail <u>60</u>               | Calendar <u>62</u> | Wireless <u>64</u> | Instant Messaging <u>66</u> | Unified Messaging <u>68</u> |

|  |                              |                           |                           |                                       |
|--|------------------------------|---------------------------|---------------------------|---------------------------------------|
| Web, Application, and Integration Services <u>46</u> |                              |                           |                           |                                       |
| Web Server <u>70</u>                                 | Application Server <u>72</u> | B2B Integration <u>74</u> | EAI Integration <u>76</u> | Business Process Automation <u>78</u> |

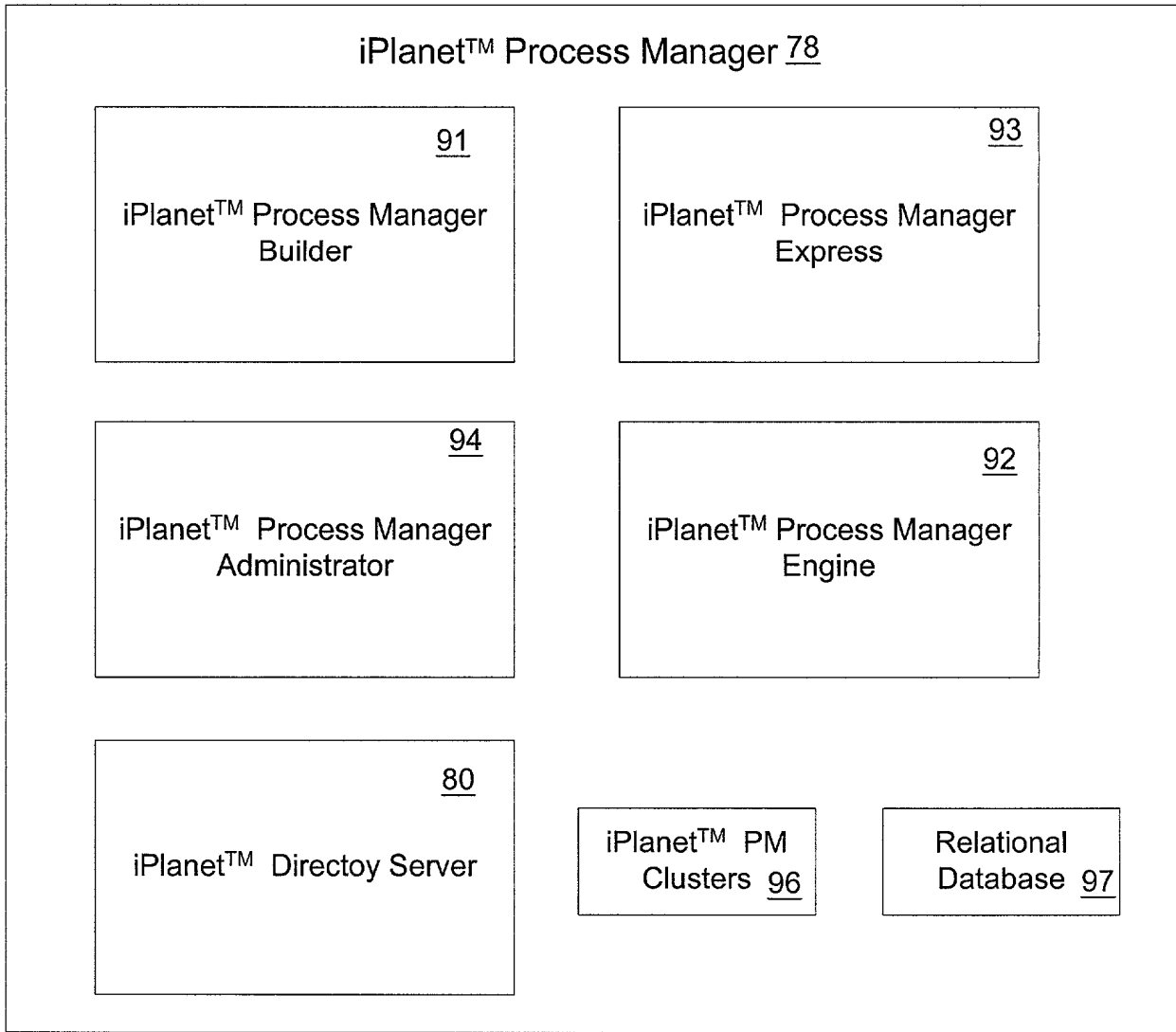
|  |                          |                                    |               |                  |
|--|--------------------------|------------------------------------|---------------|------------------|
| Unified User Management Services <u>48</u> |                          |                                    |               |                  |
| Directory Server <u>80</u>                 | Meta Directory <u>82</u> | Delegated Administration <u>84</u> | PKI <u>86</u> | Policy <u>88</u> |

Internet  
Service  
Deployment  
Platform

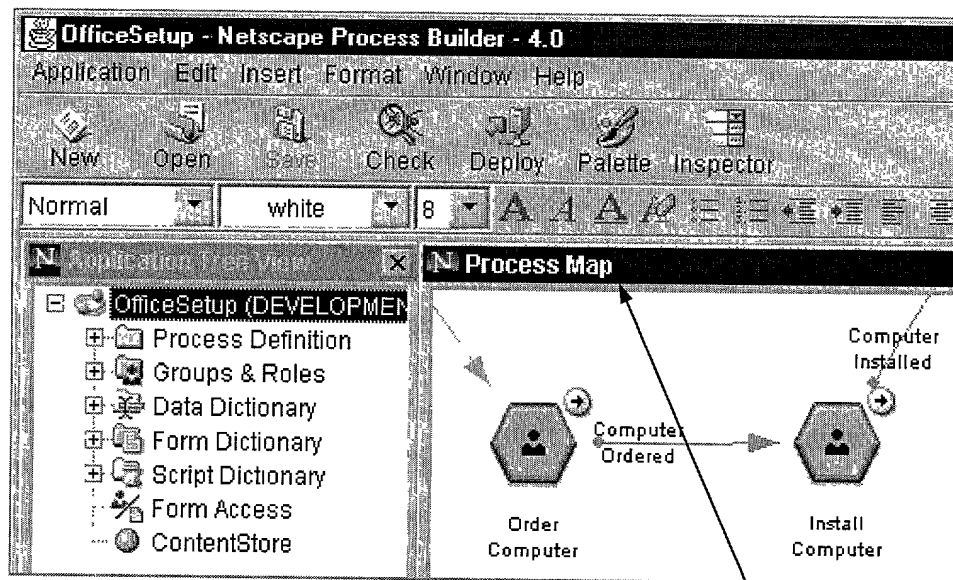
Operating System 30

Network & Systems Infrastructure 32

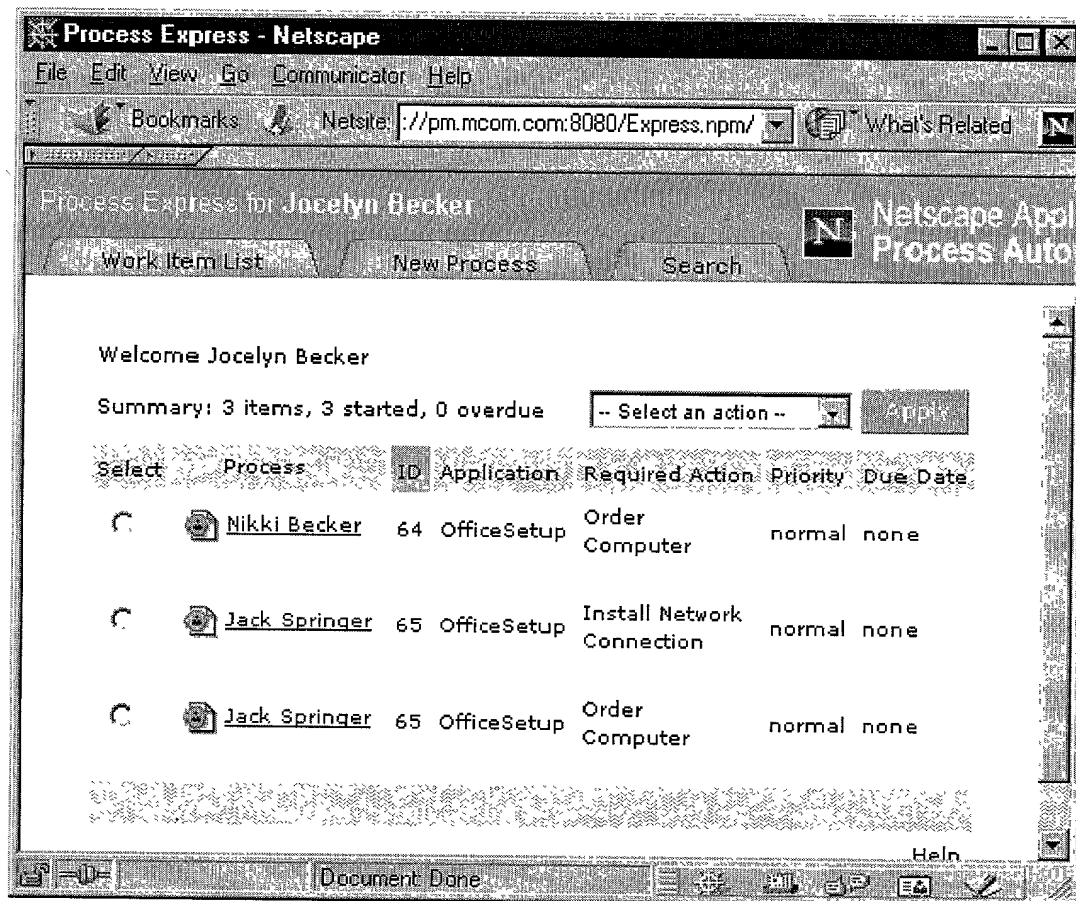
(PRIOR ART)  
FIGURE 3



(PRIOR ART)  
FIGURE 4



(PRIOR ART)  
FIGURE 5



(PRIOR ART)  
FIGURE 6

**Process Express - Netscape**

File Edit View Go Communicator Help

Bookmarks Netsite: mcom.com:8080/Express.npm/ What's Related

Process Express for Jocelyn Becker

Work Item List New Process Search

## Order Computer

*Who uses this form:* Purchasing department.

*What to do with this form:* Use this form to indicate that you have ordered a computer for a new employee.

Here are the details of the new employee:

**Employee Name:** Name: Nikki Becker  
 Start Date: 05/03/2000  
 Report To: Kipling Tidwell  
 Department: Engineering  
 Requested By: Jocelyn Becker

The hiring manager should have entered the computer description. If the description field is blank, please contact the hiring manager. Please order the computer and enter the order date and order ID number.

**Computer:**

Order Date: 2/15/2000 (MM/dd/yyyy)

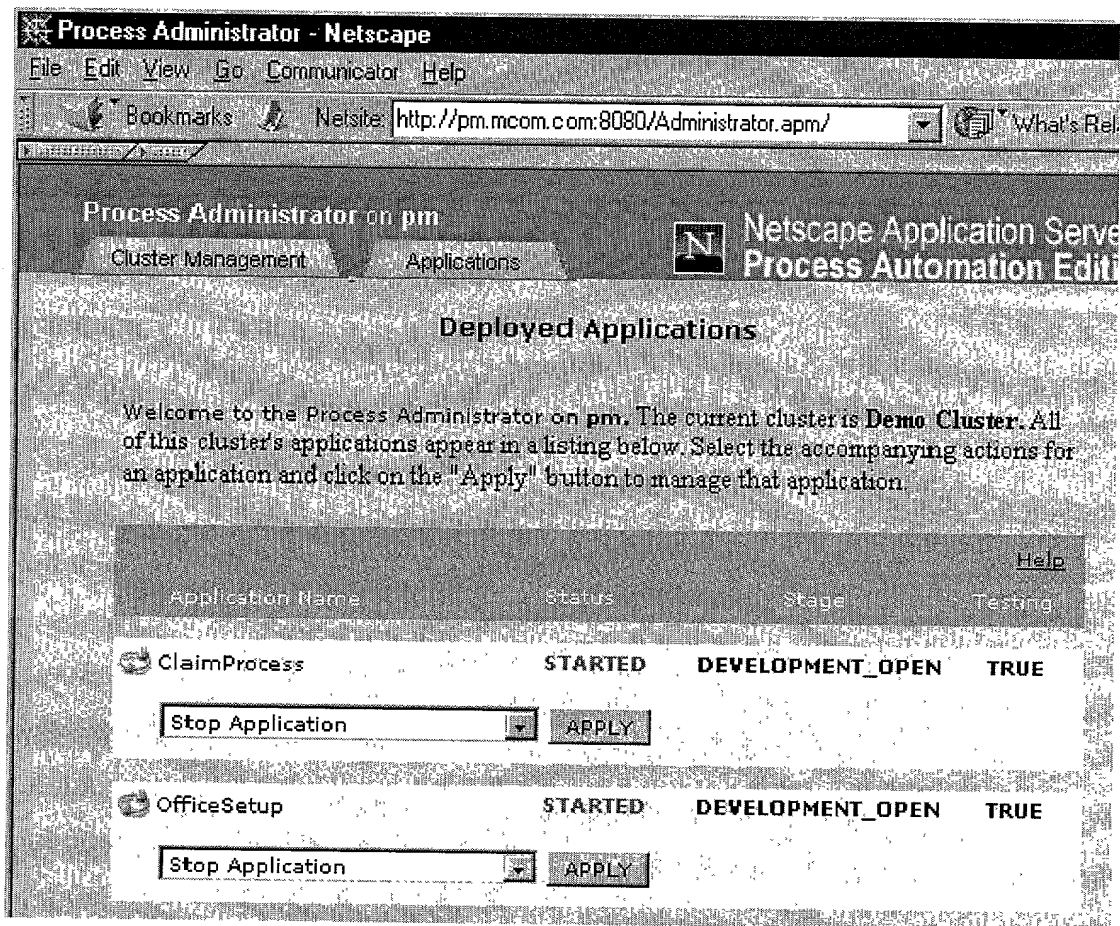
Order ID:

Description: HP-4150 laptop

After you have ordered the computer press the button below to submit this form. The next step in the process is for the computer to be installed.

After completing the above form, select one of the following actions.

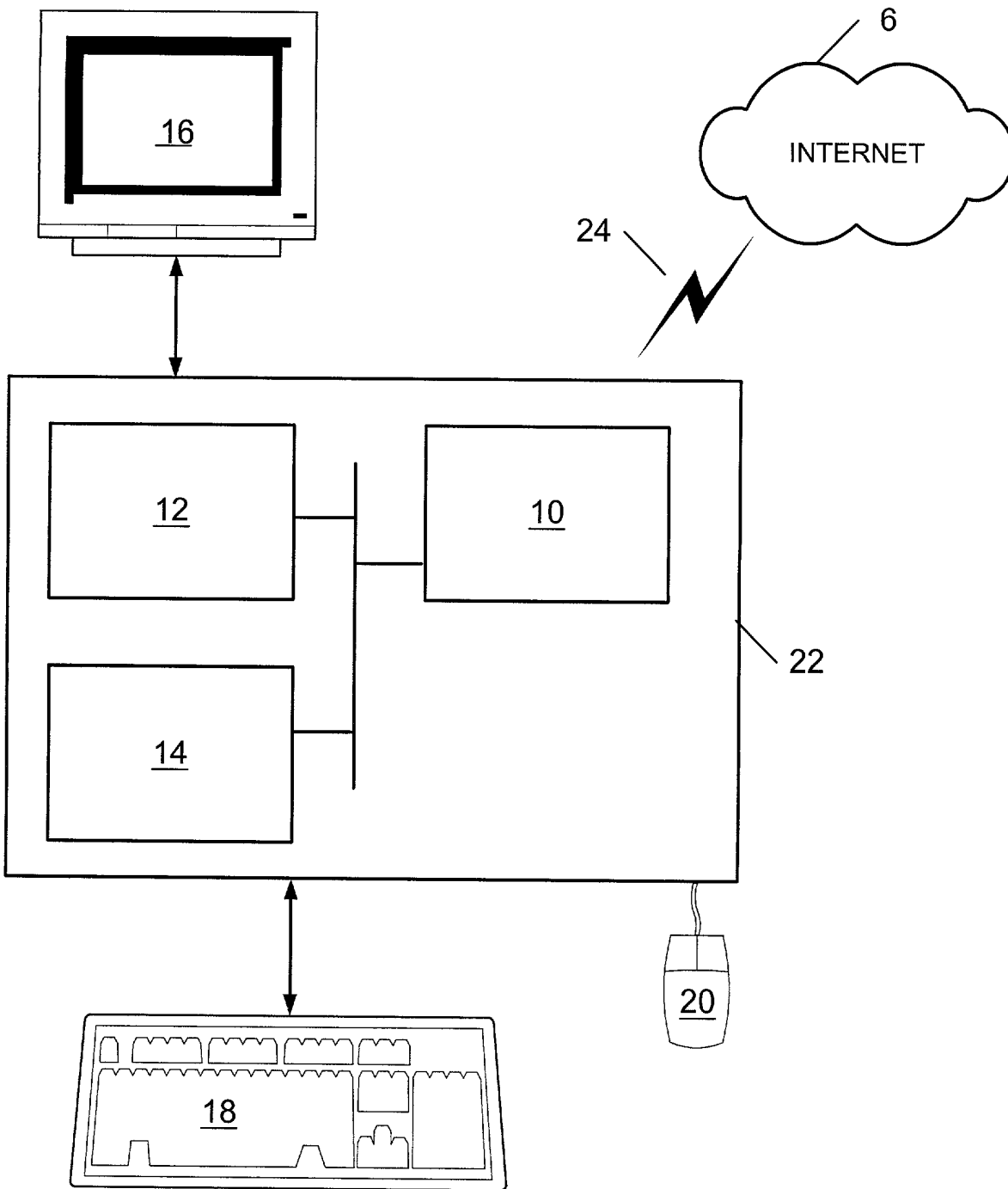
(PRIOR ART)  
FIGURE 7



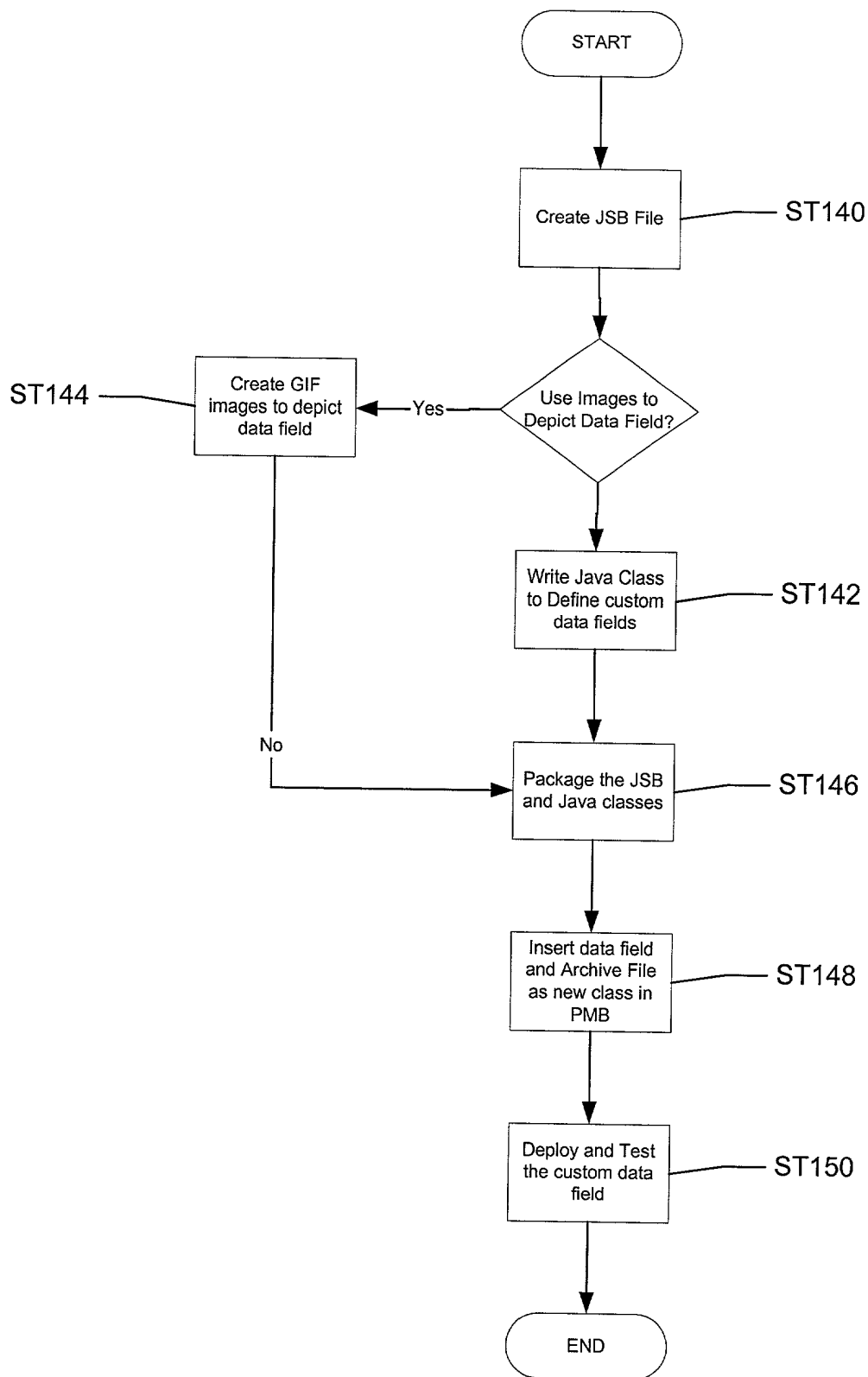
(PRIOR ART)  
FIGURE 8



FIG. 9 is a block diagram of a computer system 22 in accordance with the present invention. The computer system 22 includes a processor 10, a memory 12, a storage device 14, a display 16, a keyboard 18, and a mouse 20. The processor 10 is connected to the memory 12 and the storage device 14. The display 16 is connected to the processor 10. The keyboard 18 and the mouse 20 are connected to the processor 10. The computer system 22 is connected to the Internet 6 via a network 24.



(PRIOR ART)  
FIGURE 9



**FIGURE 10**

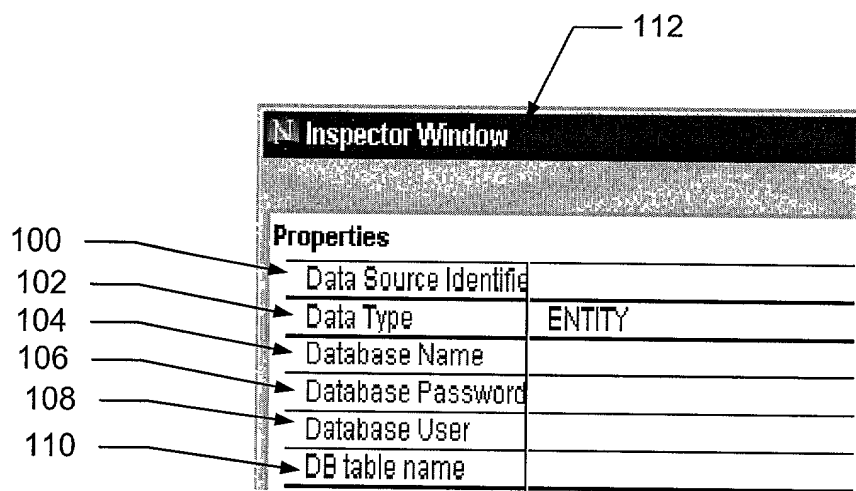


FIGURE 11

BasicCustomField 160

CLASS

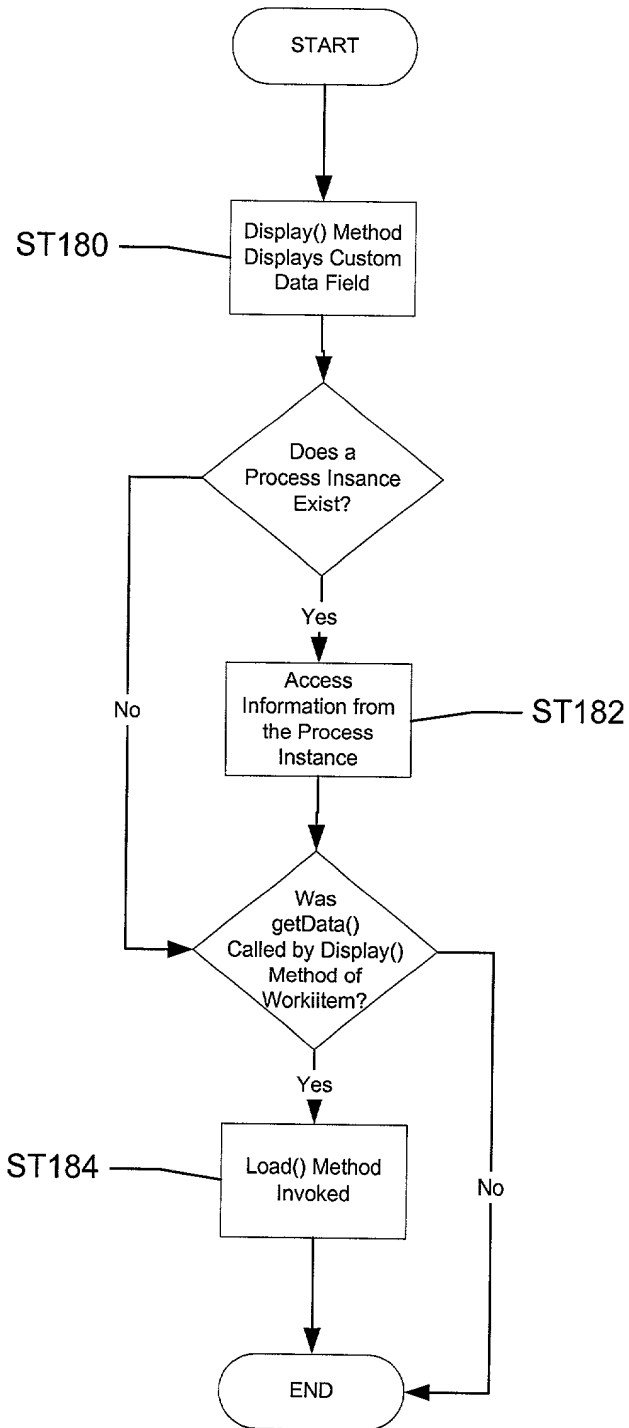
IPresentation Element 162

IDataElement 164

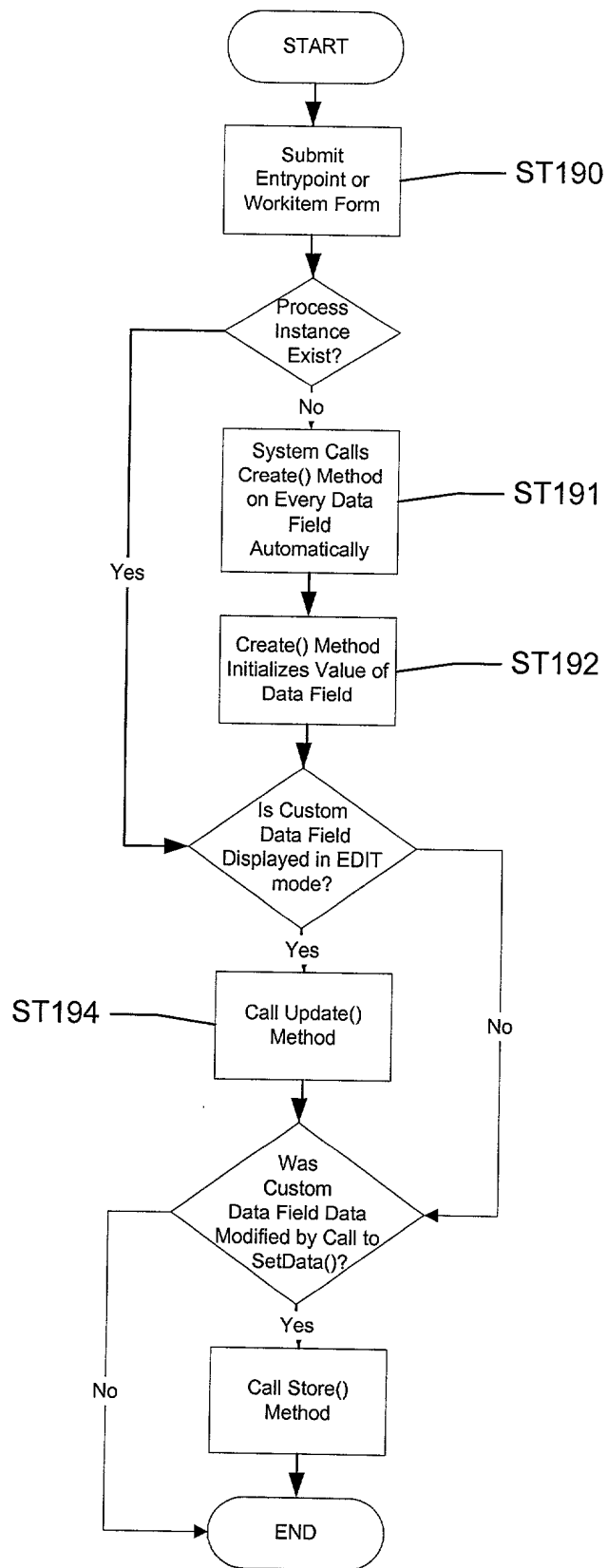
INTERFACE

display() 166    update() 168    create() 170    load() 172    store() 174    archive() 176    METHOD

FIGURE 12

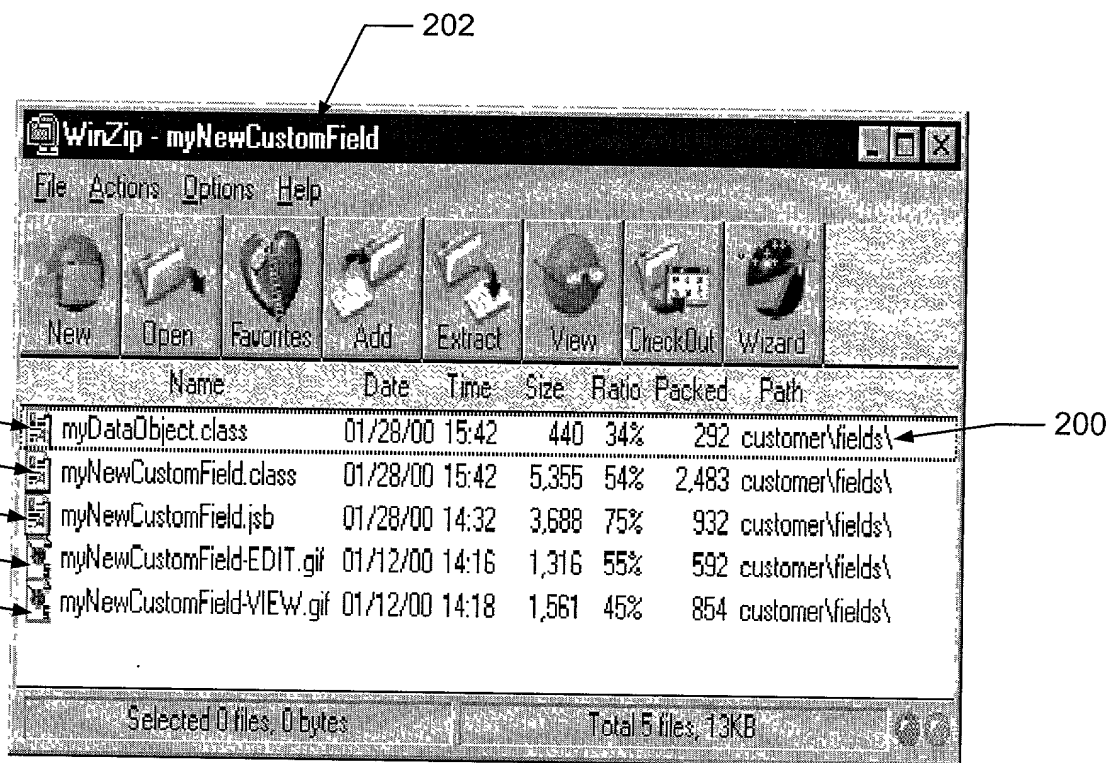


**FIGURE 13**

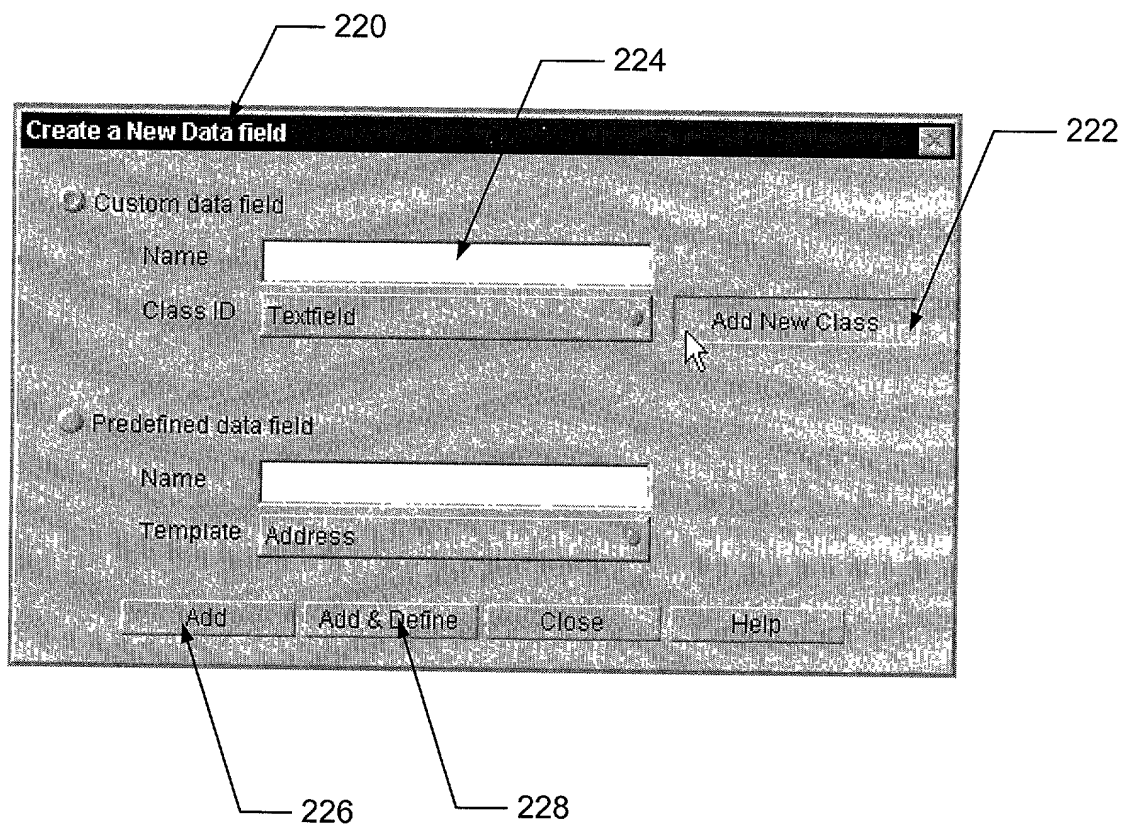


**FIGURE 14**

208  
206  
204  
210  
212



**FIGURE 15**



**FIGURE 16**



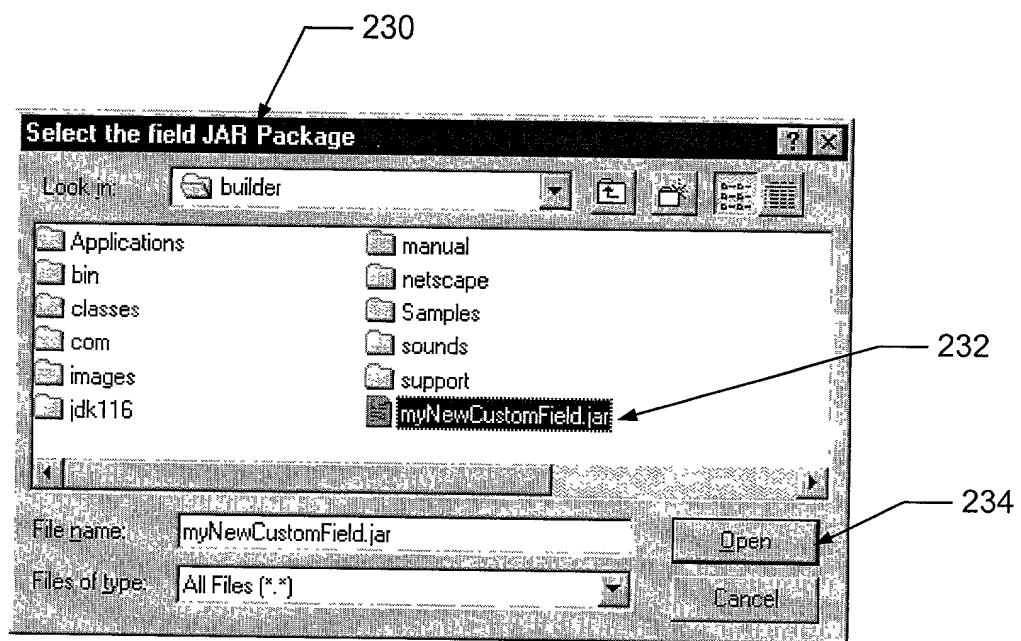


FIGURE 17

240

**Inspector Window**

| Properties             |                                  |
|------------------------|----------------------------------|
| Data Source Identifier |                                  |
| Data Type              | ENTITY                           |
| Database Name          |                                  |
| Database Password      |                                  |
| Database User          |                                  |
| DB table name          |                                  |
| Display Name           | employeeInfo                     |
| Field Class ID         | customer.fields.myNewCustomField |
| Help Message           | <help for employeeInfo>          |
| Name of this field     | employeeInfo                     |
| Short Description      | <no description>                 |
| Table Background Color | white                            |

FIGURE 18

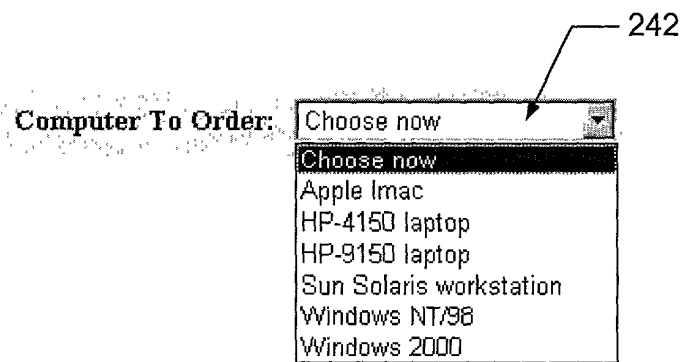


FIGURE 19

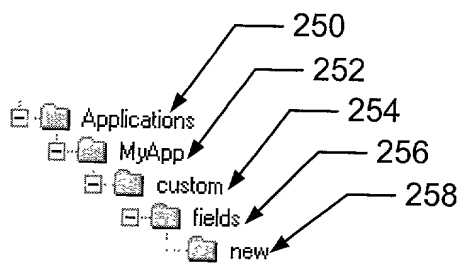


FIGURE 20